



Nuclear Field Career Development

Opportunities to **STAY NAVY**
in the Nuclear Propulsion
Program

Rev 1/18/01



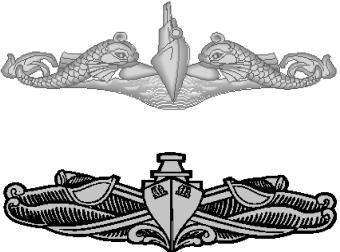
Nuclear Field Career Development

Opportunities to STAY NAVY

Congratulations on your significant accomplishment...
Graduation from the Navy's premier enlisted training pip

- Fleet Overview
- Your First Sea Tour
- Future Assignments
- Career Path
- Education Opportunities
- Monetary Compensation



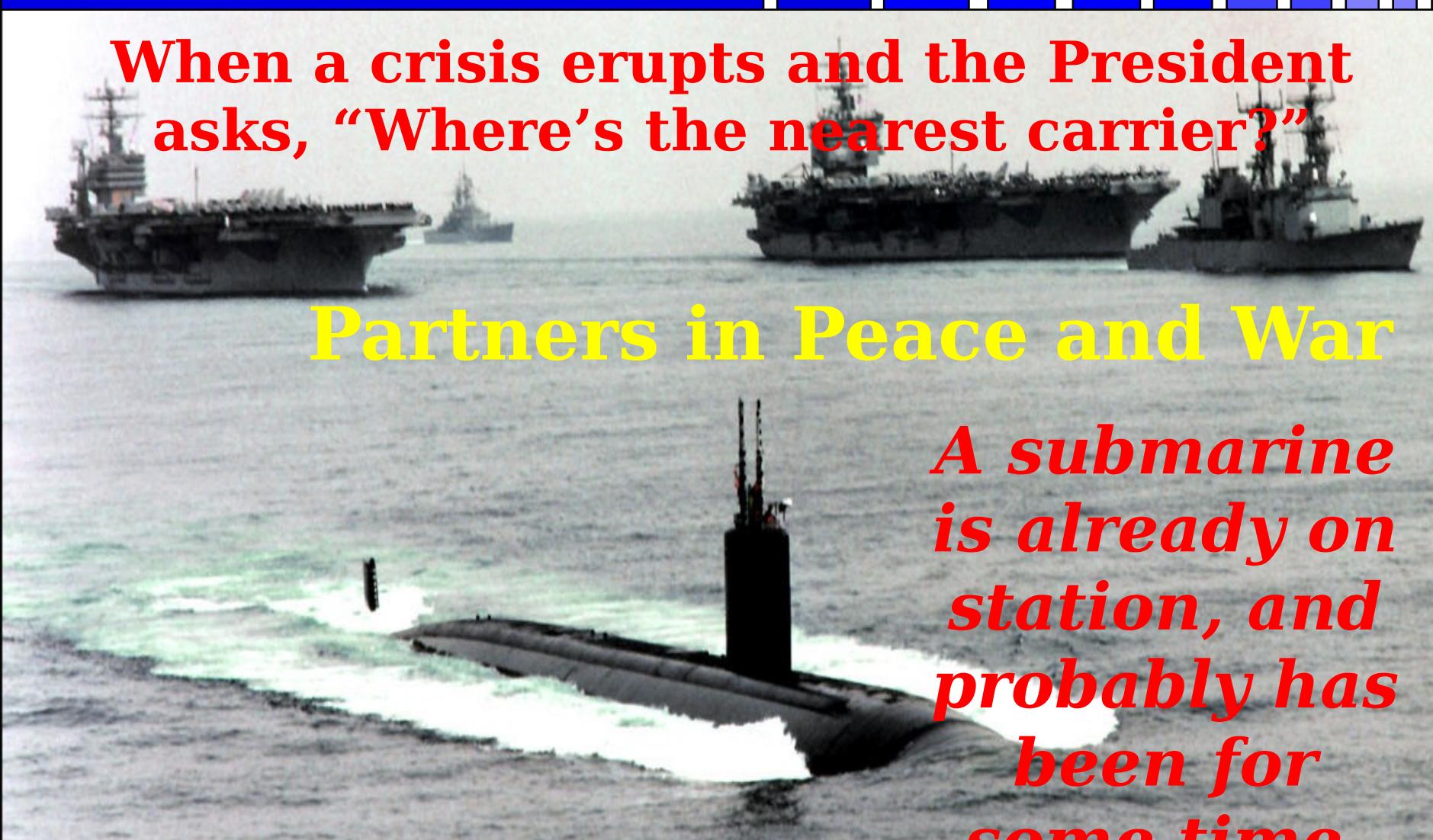


U.S. Submarine and Surface Forces

When a crisis erupts and the President asks, "Where's the nearest carrier?"

Partners in Peace and War

A submarine is already on station, and probably has been for some time





Crew Distribution

End of Fiscal Year 2002



PAC NORWEST

SSN: 4
SSBN: 18
CVN: 2

San Diego, CA

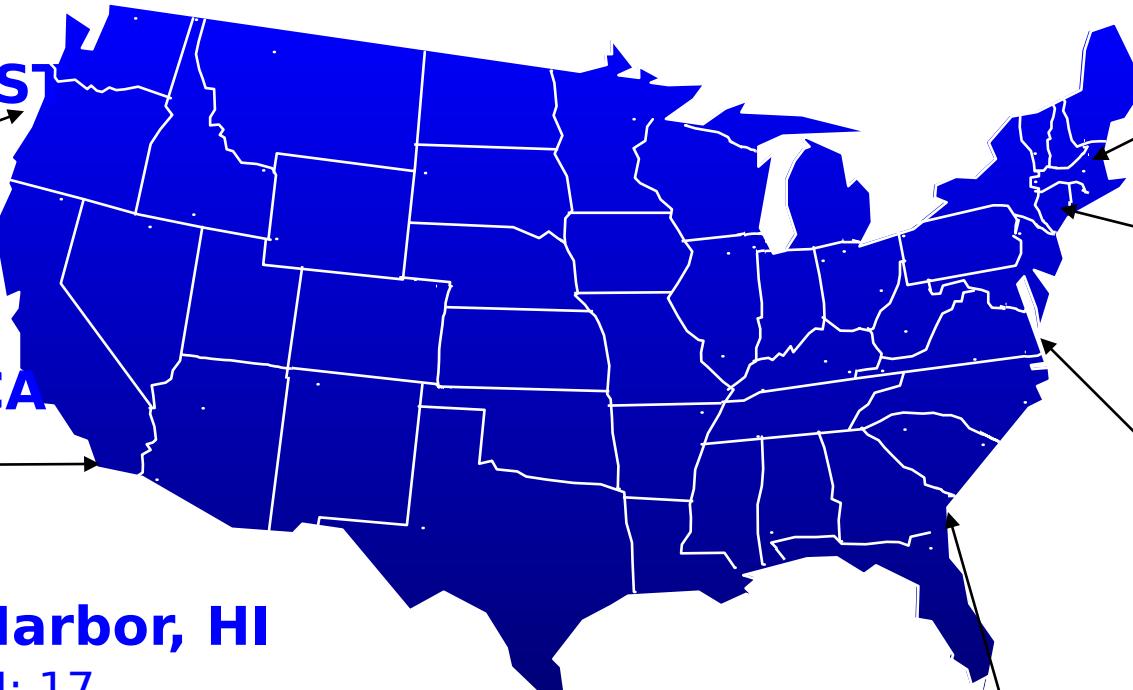
DOLPHIN
CVN: 2
SSN: 4

Pearl Harbor, HI

SSN: 17

Guam

SSN: 2



PTSYD, NH

SSN: 2

New London, CT

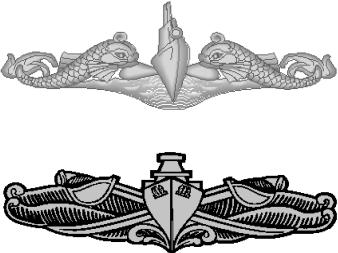
NR-1
SSN: 15
SSN/PCU: 1

Hampton Roads, VA

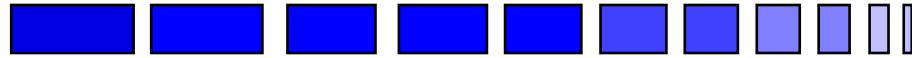
CVN: 5
SSN: 10
SSBN: 2
CVN/PCU: 1
SSN/PCU: 2

Kings Bay, GA

SSBN: 6



Nuclear Field *Your First Sea Tour*



■ Operations and Maintenance--Primary Responsibility

■ Training and Qualifications

- Initial (operator) vs.. advanced (supe

■ Advancement

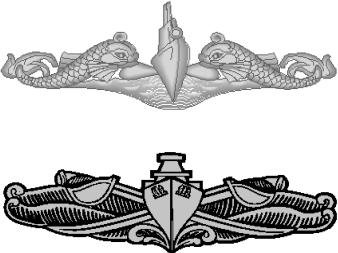
- STAR reenlistment provides:
 - » 100% advancement opportunity to E-
 - » “2 for the price of 1” 4 yr reenlistment
 - » Only 2 additional years of obligated service (all on shore)

■ Reenlistment/Extensions

- Stay/Leave Decision--Obligate to shore

■ The Key--Take charge of your career development





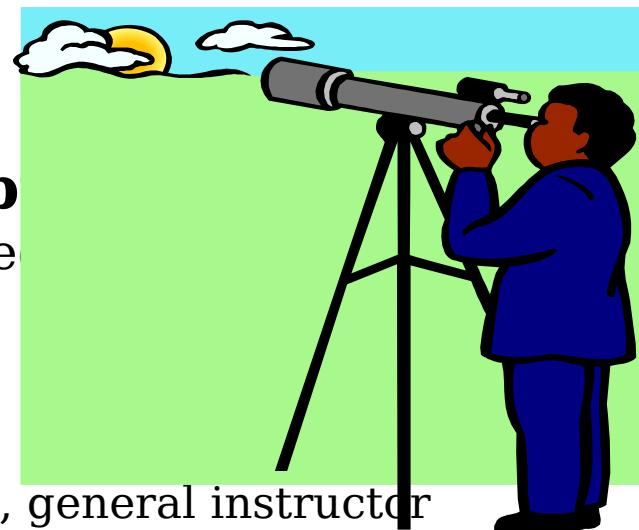
Nuclear Field *Future Assignments*

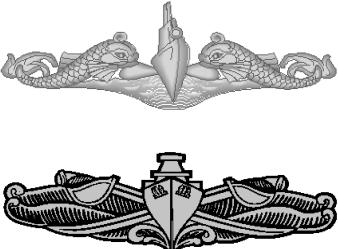
■ Must reenlist Zone "A" to get Shore Duty

- Make your career stay/leave decision while on shore
 - » "Normal" life experience; opportunity to better judge what/where you prefer to take your life
 - » Schools enroute: 3373--ETMS, 3376--RCTQS, 3377--Nuclear Planner
 - » Chance at overseas travel (MAC flights)
 - » New residence/community

■ Looking Ahead--First Shore Duty op

- Prescribed shore tour length/nuclear enlisted
- Types of duty, locations, variety of options
 - » Nuclear Instructor--NFAS, NPS, NPTU
 - Most important nuclear enlisted shore duty
 - Master training specialist
 - » Other--Tender duty, NRMD, SIMA, recruiting, general instructor duty and shore staff assignments
- CONSUBPAY ashore requires 14 month return to sea commitment
 - » Can mean not forgoing \$7,000-\$14,000 over a 3 year shore duty tour





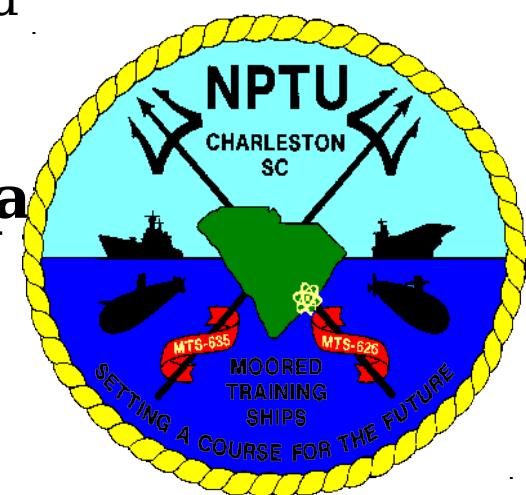
Nuclear Field

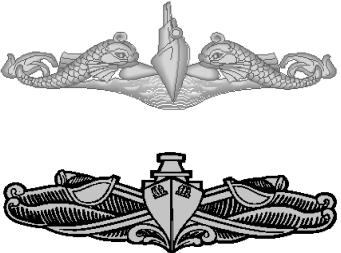
Future Assignments--continued

Why Prototype?



- A priority billet; extremely important to the success of the Navy's Nuclear Power Program
- Demanding and rewarding job
 - Feeling of worth; part of a team; clearly focused objectives
- Opportunity to mentor junior Sailors
- Only duty which allows a submarine Sailor to qualify and stand watch as EOOW
- Outstanding opportunities
 - For advancement
 - For advanced education
- Great environment for the family

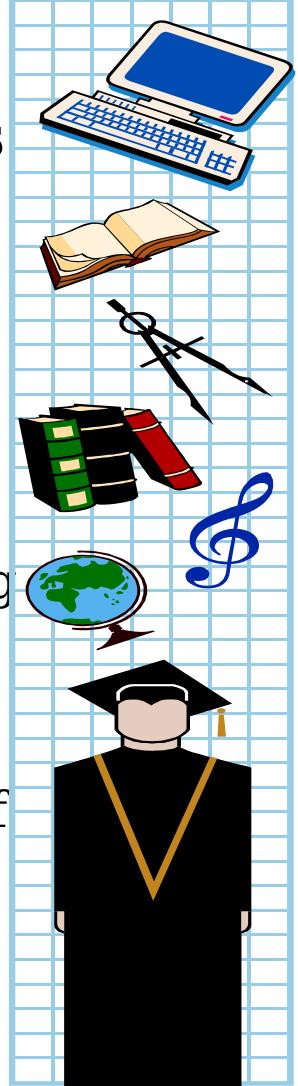


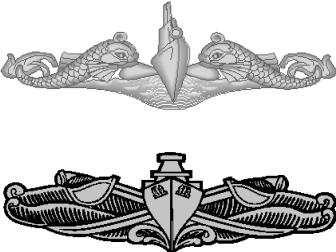


Nuclear Field *Future Assignments-- continued*



- **Set up for next sea tour, advancement, perhaps even civilian job/naval reserves**
- **Advanced education opportunities**
- **Follow-on sea/shore tours per career path**
 - Operator vs. Supervisor
 - Apprentice vs. Journeyman vs. Master
 - Officer/commissioning programs
 - » LDO, Warrant, USNA, NROTC and STA 21
 - Junior Enlisted (E-4/5) vs. Leading First (E-6) vs. Leading Petty Officer (E-7/8) vs. EDMC/RSEA (E-8/9) vs. COB/CMC (E-9)
- **NAVET statement:**
 - “The challenge of the Nuclear Navy and the personnel of that professional ability is missed.... The other benefits that the Navy offers for me and my family outweigh any that I have found in the civilian community.”





Nuclear Field *Education Opportunities*

■ What should you be looking to gain out of advanced education:

- Degree, commission, better educated Sailor, pride/self-assurance
- Better positioned for military and civilian

■ Navy College Program (NCP)

- Matched with previous nuclear education
 - » Rating Roadmaps
 - » SMART Transcripts
- 2 year vs. 4 year degree
- Distance Learning; PACE program

■ Monetary Support and Funding

- Tuition Assistance (TA)
 - » Now covers 100% of tuition costs!
- Montgomery GI Bill (MGIB)
- Navy College Fund (NCF)
- Other monetary support, such as EB

■ Charleston and Ballston Spa Education Opportunities





42 Semester Hours



15 Semester Hours 64 to 76 Semester Hours



Sample Nuclear
Enlisted Credit



Rensselaer

why not change the world?™

Acceptance

30 Semester Hours

Over 41 Semester Hours

Amount awarded varies by college:



33 Semester Hours



13 Semester Hours

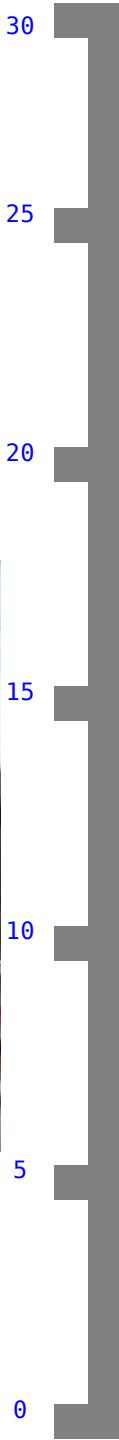


New School University

About 90 Semester Hours

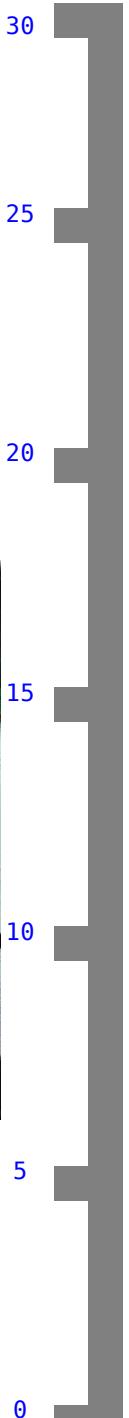
Nuclear Field Career Paths

Electronics Technician



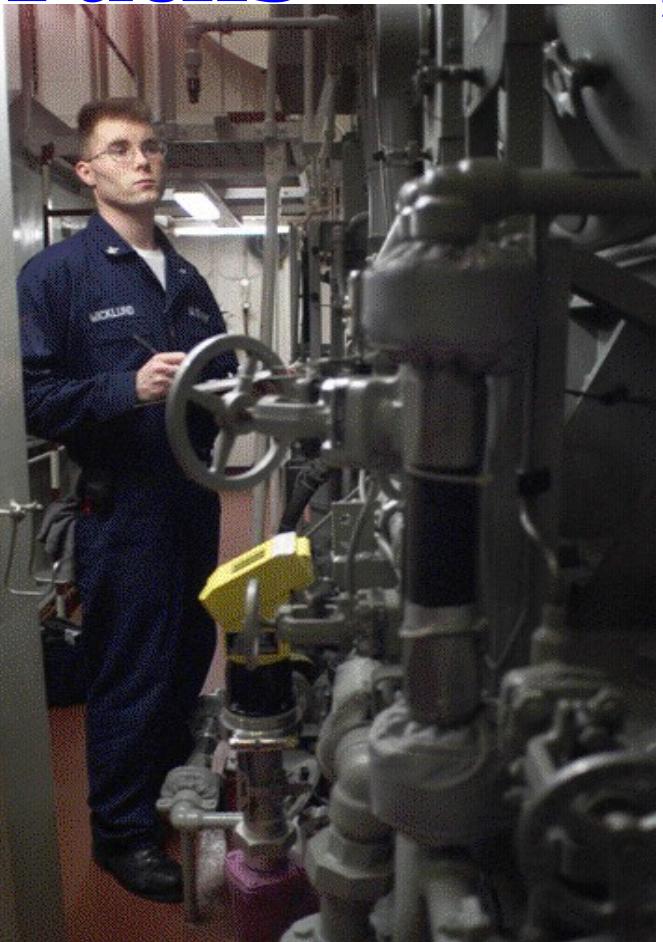
30	<u>SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR
25	<u>SEA TOUR (36 MONTHS) NEC: 3359/89, 3363/93</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: CMC/COB/DEPARTMENT LCPO
20	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL
15	<u>SEA TOUR (36-48 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: DEPARTMENT LCPO / DIVISION LCPO
10	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE TECH/STAFF/GENERAL/RECRUITER
5	<u>SEA TOUR (60 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3363); CVN (3393) BILLET: DIVISION LPO / ASSISTANT LPO
0	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X3</u> DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER
5	<u>SEA TOUR (36-60 MONTHS) NEC: 33X3</u> DUTY STA: SSN/SSBN (3353); CVN (3383) BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION
0	<u>SHORE TOUR/TRAINING (82 WEEKS) NEC: 9901</u> DUTY STA: RTC→NFAS→NPS→NPTU SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU

Nuclear Field Career Paths *Electrician's*

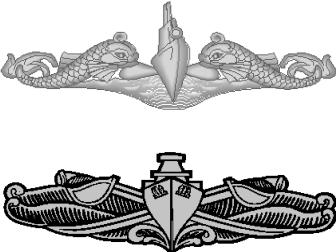


<u>SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR
<u>SEA TOUR (36 MONTHS) NEC: 3359/89, 3364/94</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: CMC/COB/DEPARTMENT LCPO
<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL
<u>SEA TOUR (36-48 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: DEPARTMENT LCPO / DIVISION LCPO
<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE TECH/STAFF/GENERAL/RECRUITER
<u>SEA TOUR (60 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3364); CVN (3394) BILLET: DIVISION LPO / ASSISTANT LPO
<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X4</u> DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER
<u>SEA TOUR (36-60 MONTHS) NEC: 33X4</u> DUTY STA: SSN/SSBN (3354); CVN (3384) BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION
<u>SHORE TOUR/TRAINING (81 WEEKS) NEC: 9901</u> DUTY STA: RTC→NFAS→NPS→NPTU SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU

Nuclear Field Career Paths



30	<u>SHORE TOUR (36 MONTHS) NEC: 0000, 3359/89, 33X5(6)</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF BILLET: CMC/STAFF/INSTRUCTOR/MAINTENANCE SUPERVISOR
25	<u>SEA TOUR (36 MONTHS) NEC: 3359/89, 33X5(6)</u> DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6)) BILLET: CMC/COB/DEPARTMENT LCPO
20	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/MAINTENANCE SUPERVISOR/STAFF/GENERAL
E-9	<u>SEA TOUR (36-48 MONTHS) NEC: 33X5(6)</u> DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6)) BILLET: DEPARTMENT LCPO / DIVISION LCPO
E-8	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)</u> DUTY STA: NPTU/NFAS/NPS/IMA/STAFF/GENERAL SHORE BILLET: INSTRUCTOR/SHIP AND COMPONENT MAINTENANCE TECH/STAFF/GENERAL/RECRUITER
E-7	<u>SEA TOUR (60 MONTHS) NEC: 33X5(6)</u> DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6)) BILLET: DIVISION LPO / ASSISTANT LPO
E-6	<u>SHORE TOUR (36-40 MONTHS) NEC: 3359/89, 33X5(6)</u> DUTY STA: NPTU/NFAS/NPS/IMA/GENERAL SHORE BILLET: INSTRUCTOR/MAINT. TECH/GENERAL/RECRUITER
E-5	<u>SEA TOUR (36-60 MONTHS) NEC: 33X5(6)</u> DUTY STA: SSN/SSBN (3365(6)); CVN (3395(6)) BILLET: STEAM/REACTOR PLANT OPERATOR/MAINT. TECH GOAL: SENIOR IN RATE AND WARFARE QUALIFICATION
E-4	<u>SHORE TOUR/TRAINING (71 WEEKS) NEC: 9901</u> DUTY STA: RTC→NFAS→NPS→NPTU SOME WILL HAVE 24 MONTH STAFF PICKUP TOUR AT NPTU



Nuclear Field Monetary Compensation

■ The wide sea of military compensation

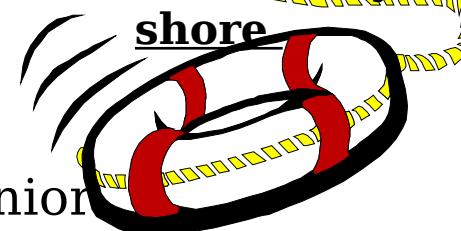
- Regular Pay and Allowances: Base Pay, BAH, BAS
- Special Pays: SDAP, Career Sea Pay, SUBPAY
- Bonuses: EB, SRB

A nuclear-trained
Sailor who STAR
reenlists at the 2 year

■ Navy compensation initiatives

- Annual pay raises
- 2 year longevity pay increases
- Occasional targeted pay raises
 - » Greater than 4% last two fiscal years
- Steady income
- Recent SUBPAY increases targeted at junior

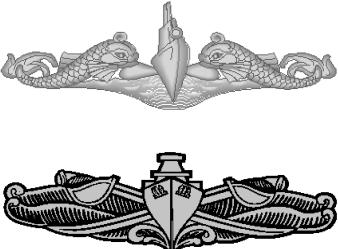
point,
earns
than
not
cost is
shore
~\$35,000 more
one who does
reenlist; the
2 years on
duty



■ Comparison of pay and compensation, including typical bonuses

- Typical annual salary (assumes on sea duty & >2 y)
 - » Nuclear-Trained Submariner (E-5)--\$41,800
 - » Nuclear-Trained Surface Sailor (E-5)--\$38,800
 - » Non-Nuclear Surface Sailor (E-4)--\$27,894





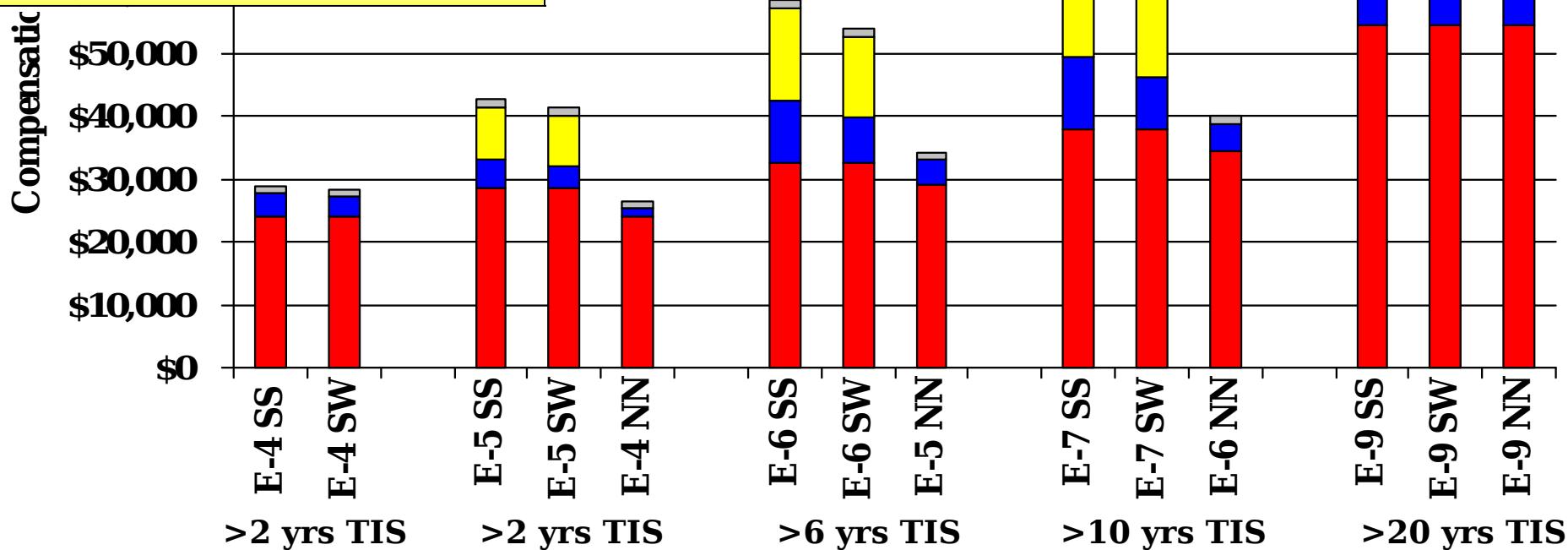
Pay and Allowances

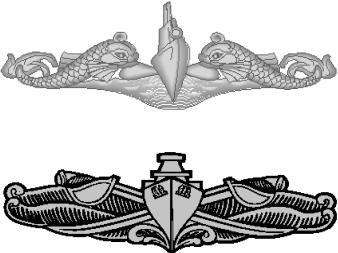
As of January 2001

-BAH varies by homeport, assumes w/ dependents
-Excludes Enlistment Bonus at ~ 2yrs TIS
-Total Reenlistment Bonus annualized over 4 yrs
-Medical/Dental/Retirement benefits not included
-Pay Grade/TIS examples represent earliest times

Tax Advantage
Bonuses
Special Pays
Regular Pay and Allowances

SS=Nuclear Trained Submariner
SW=Nuclear Trained Surface Sailor
NN=Non-Nuclear Trained Sailor (non-Submariner)
TIS=Time in Service





Nuclear Field *Monetary Compensation-- continued*

■ Regular Military Retirement Pay Calculations

- At today's monthly rates, you would require in equivalent investments:
 - » E-7 (@20 yrs TIS)--\$147,973 (assumes 10% annual return, 35 payment years)
 - » E-9 (@26 yrs TIS)--\$275,579
- To retire in 2019 (as an E-7) or in 2025 (as an E-9), you will require:
 - » E-7--\$264,277 (equates to investing \$44,012 now or \$440 monthly for 18 yrs)
 - » E-9--\$495,819 (equates to investing \$45,429 now or \$417 monthly for 24 yrs)

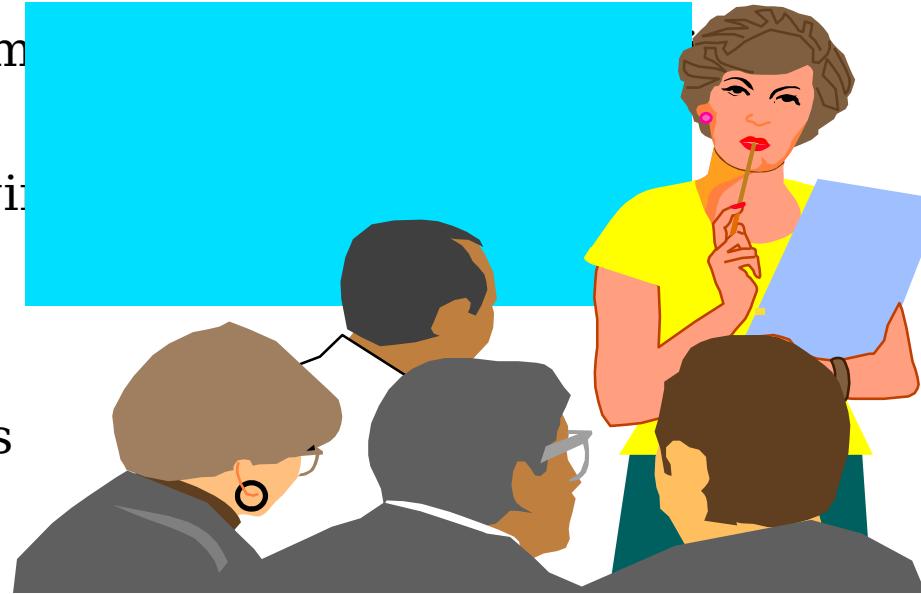
- Note: Retirement pay is free from

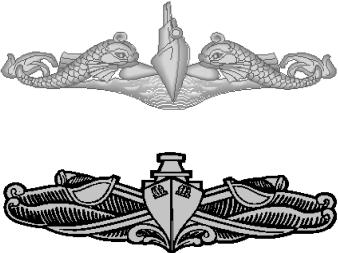
■ Investments

- A good use for your bonuses
- The power of Dollar Cost Averaging
- Thrift Savings Plan option
 - » Pre-tax & tax deferred
- IRAs
 - » Tax deferred or non-taxable
- Regular investments and savings

■ Insurance and Wills

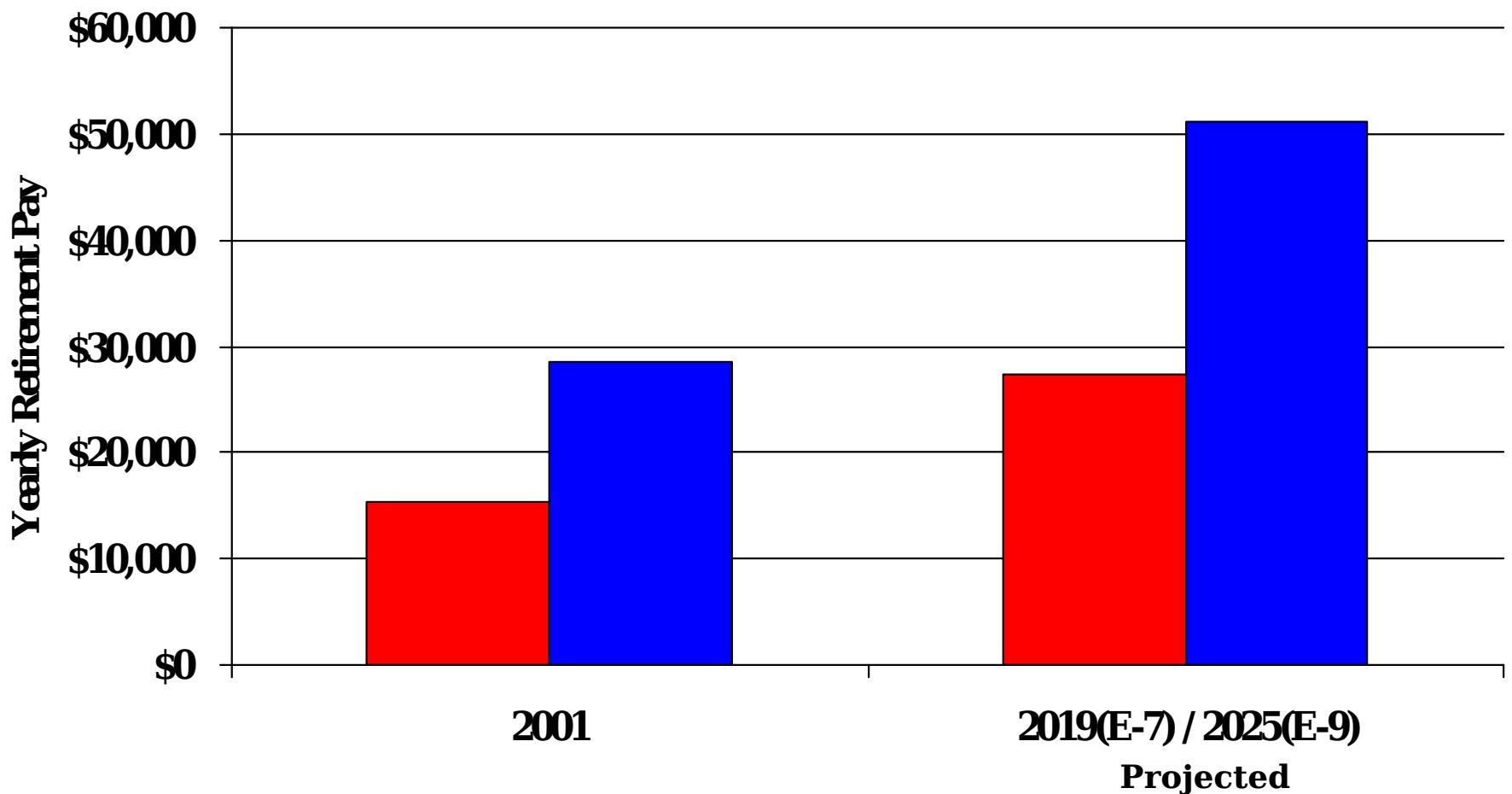
- Protecting your family/assets



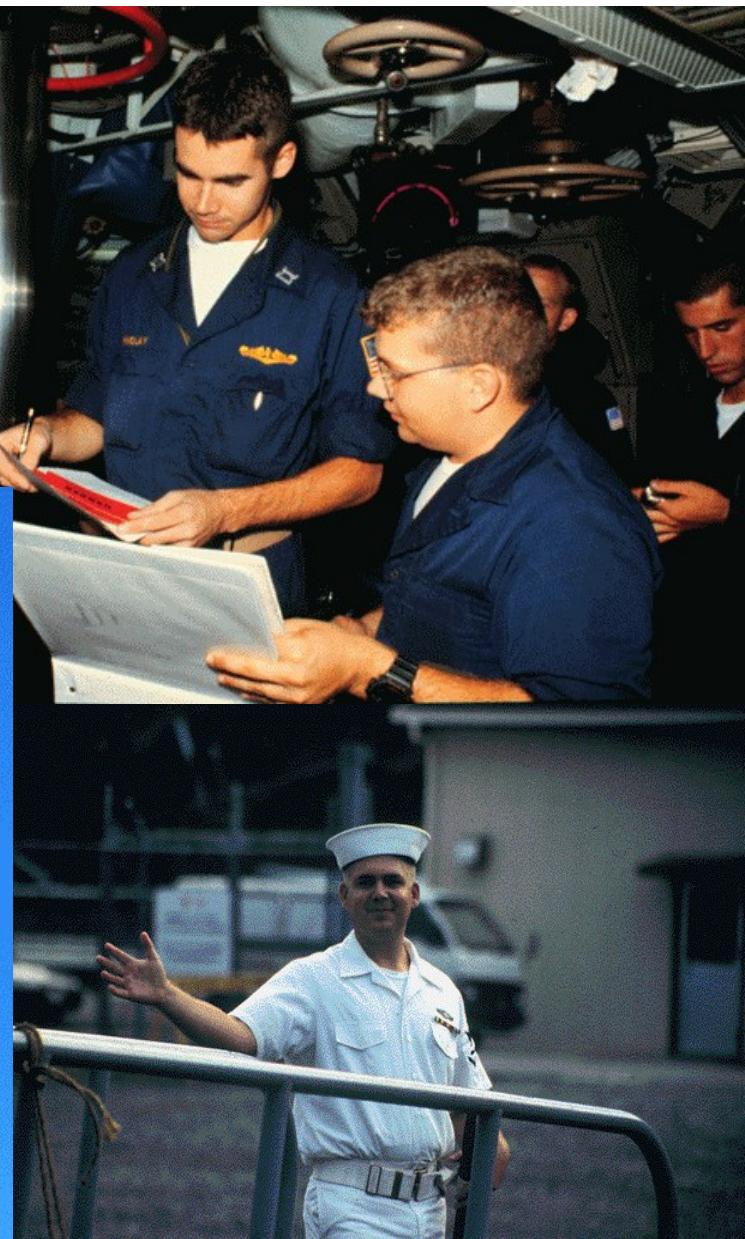
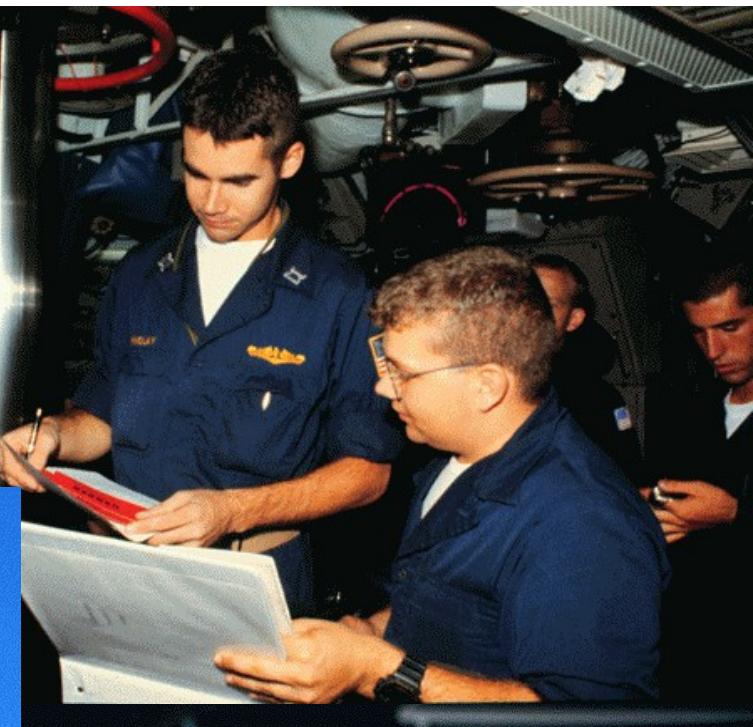
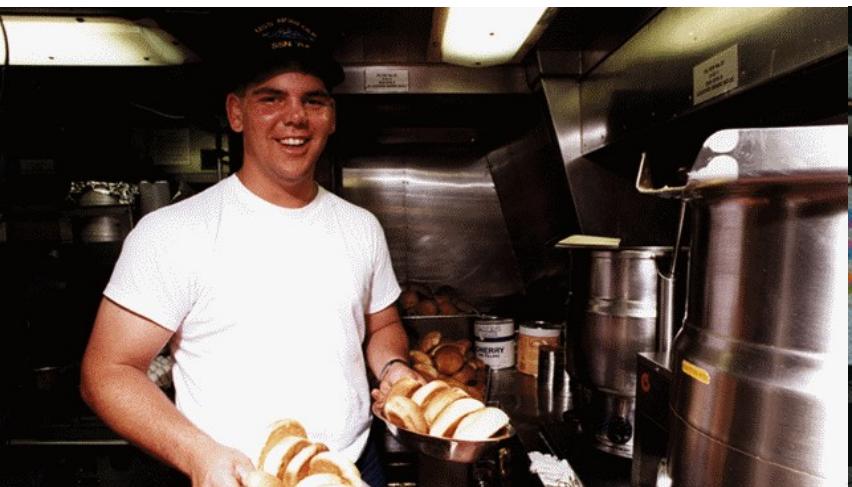


Military Retirement Benefits

■ E-7 at 20 YRS TIS ■ E-9 at 26 YRS TIS



Serving with the world's finest Sailors...



...Everyday!



Questions?



*America's Nuclear Force -
Transitioning to a new Century of*



Backup



America's Submarine Fleet



- **SSN - Fast Attack Submarine**
 - Multi-Faceted
 - Multi-Mission Capable
 - Approximately 58 Crews
- **SSBN - Ballistic Missile Submarine**
 - TRIDENT**
 - **100% of Survivable Warheads**
 - **54% of National Strategic Capability**
 - **34% of Strategic Budget**
 - Currently 36 Crews

34% of the Nation's Warships

12% of the Navy's Budget

7% of Navy's Manpower

Submarines are... *...Multi-Mission Platforms!*



PEACE

**Intelligence
Preparation of
the Battlefield**

Pre-Hostilities

**Conflict
Escalation**

WAR

Precision Strike

Anti-Submarine Warfare

Anti-Ship Warfare

Offensive Mining

SOF Insertion

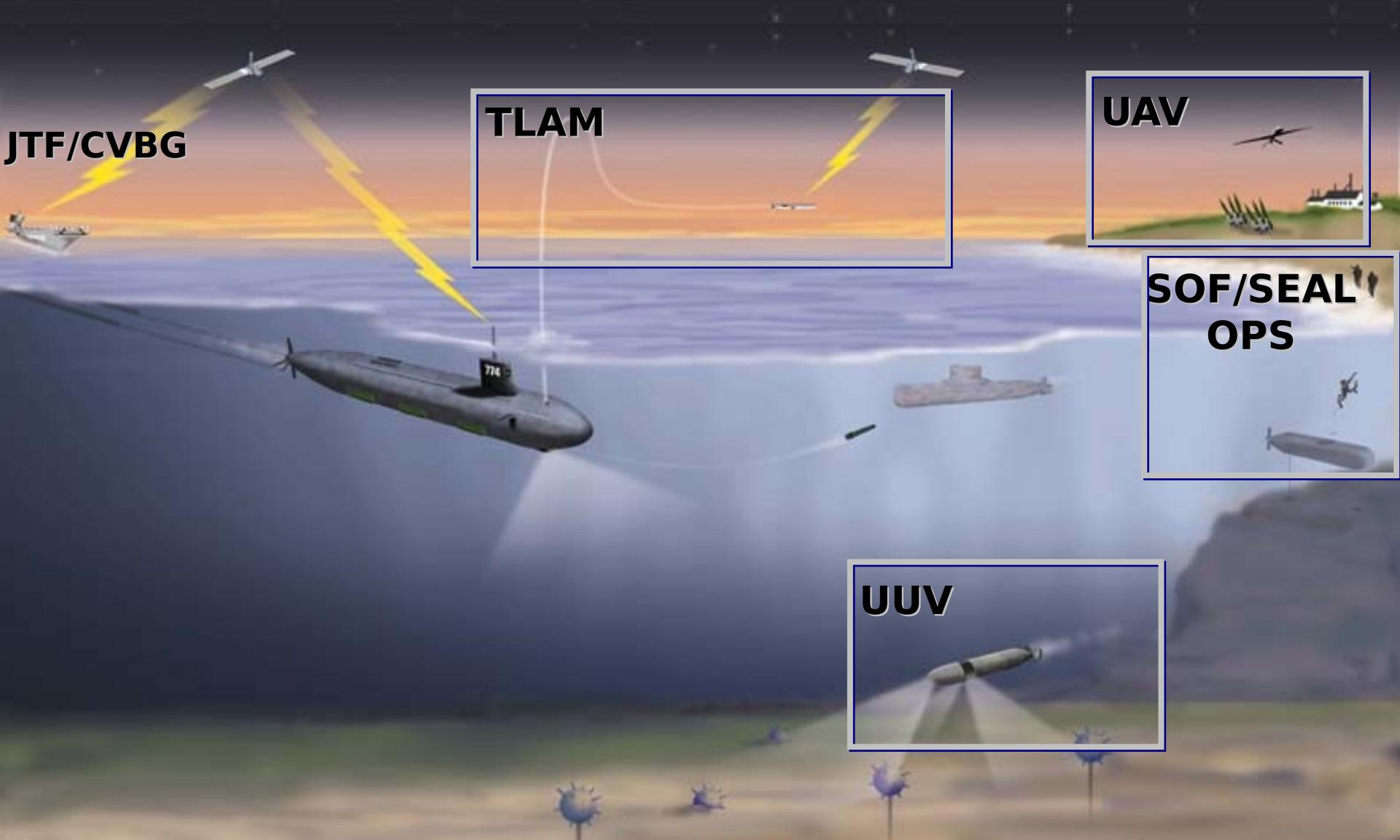
Mine Reconnaissance

Intel/Surveillance/Re

Strategic Deterrence

The Submarine Force of the 21st Century

Stealth Is The Enabler



Submarine HQ Headquarters



Carrier Warfare Operations



- **Forward Deployed to the World's Hotspots**
- **Participating in Every Navy Action**

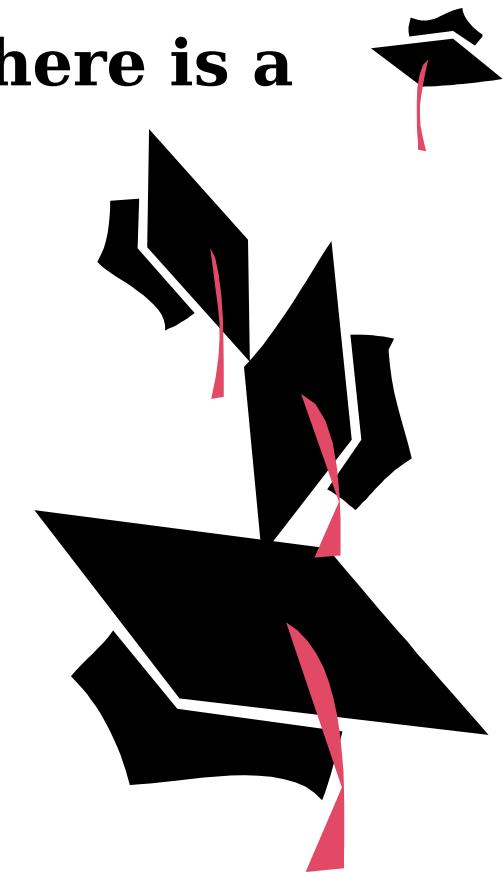


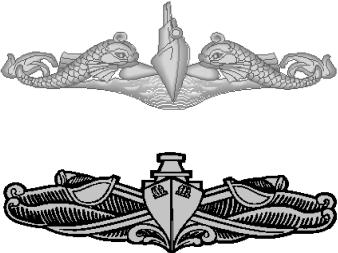
American Council on Education (ACE)

■ Purpose of ACE

- Evaluate military education and recommend equivalent college or vocational credit

■ Re-evaluation is required whenever there is a change in curriculum or location

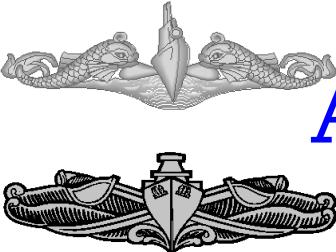




ACE Recommendations for NNPTC



NFAS	CREDIT HRS			NPS	CREDIT-HRS		
	ET	EM	MM		ET	EM	MM
Tech Math w/Algebra	3	3	3	Technical Math	4	4	4
DC Circuits	3	3		General Physics	5	5	5
AC Circuits	3	3		Ht x-fer and fluid flow	5	5	5
Digital/microprocessor	4			Nuc Rx Engineering	3	3	3
Electrical troubleshooting and repair	3	3		Atomic/nuclear physics	1	1	1
Solid state devices	4			Rad Protection tech'y	1	1	1
Electrical machinery		4		Gen'l chemistry/mat'l's	3	3	3
Basic Electronics		4		DC circuits	2	2	
Mechanical Physics			3	AC circuits	2	2	
Steam plant operations			3	Digital principles	2	2	
Basic I&C	4			Electric machines	2	2	
				Applied thermo/Ht xfer			3
				Power plant systems			3
				Basic electricity			3
Total	24	20	9		30	30	29

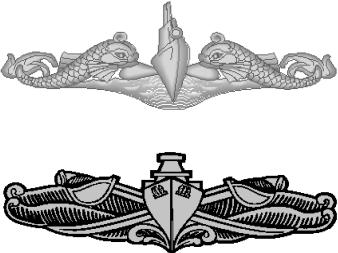


ACE Recommendations for NPTU

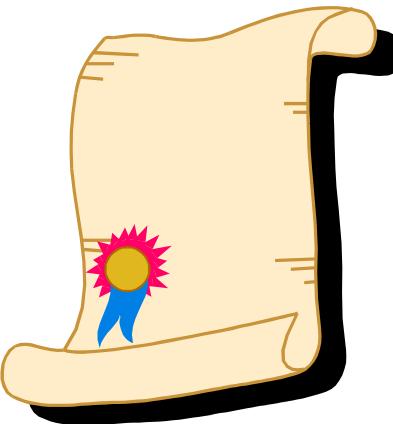


NPTU	CREDIT HRS			
	ET	EM	MM	
Oral Communications	3	3	3	
Industrial Safety	3	3	3	
Basic Health Physics	3	3	3	
Introduction to Power Systems	3	3	3	
Reactor Systems Practicum (U)	8			
Electrical Systems Practicum (U)		6		
Mechanical Systems Practicum (U)			8	
Reactor Power Systems (U)	3			
Troubleshooting Electrical Systems		3		
Troubleshooting Mechanical Systems (U)			3	
Total	23	21	23	
ELT School (6 sh)				
Chemistry			3	
Health Physics			3	
ETMS (9 sh)				
Basic	2			
Electronic Service Maintenance System	4			
Electronic Systems Maintenance Testing	3			

Totals:
ET - 86
EM - 85
MM - 75
ELT - 85



Sailor-Marine American Council on Education Registry Transcript (SMART)



- **Students receive unofficial SMART at graduation**
- **Delays:**
 - School changes take up to six months or more after re-evaluation is complete
 - About three months to update official transcript after student graduates